

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
9 September 2005 (09.09.2005)

PCT

(10) International Publication Number  
**WO 2005/082544 A1**

(51) International Patent Classification<sup>7</sup>:  
12/08, F16K 1/08

**B05B 7/02,**

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:  
PCT/IB2005/000404

(22) International Filing Date: 17 February 2005 (17.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0403605.9 19 February 2004 (19.02.2004) GB  
0501467.5 25 January 2005 (25.01.2005) GB

(71) Applicant (*for all designated States except US*): ITW LIMITED [GB/GB]; PO Box 87, Queensway Fforestfach, Swansea (GB).

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): DAVIES, Simon [GB/GB]; 28 Badbury Drive, Blandford Forum, Dorset DT11 7UJ (GB). GARLICK, Paul, Lawrence [GB/GB]; 21 Bryanstone Road, Talbot Woods, Bournemouth BH3 7JF (GB). ROGERS, John, Anthony [GB/GB]; 74 West Way, Broadstone, Dorset BH18 9LS (GB).

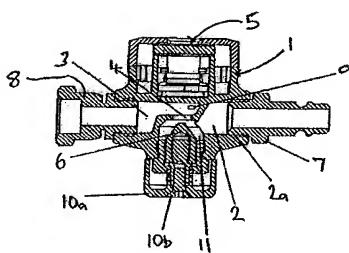
Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/082544 A1

(54) Title: PRESSURE MONITORING DEVICE FOR A PAINT SPRAY GUN



(57) Abstract: A pressure monitoring device in accordance with the present invention comprises a housing 1 within which are provided an air inlet 2 and an air outlet 3. Connecting the air inlet 2 and the air outlet 3 is an air passage way 4 which includes a pressure take off point 9. The air inlet 2 includes a threaded bore section 2a into which is screwed a coupling device 7 for coupling with the air outlet of a compressed air supply. The air outlet 3 is also configured to receive a coupling device 8 for coupling with the air inlet of a paint spray gun. A digital pressure gauge 5 is housed in a top surface of the housing 1 as shown in the figures. The gauge samples air pressure at the pressure take off point 9 through conduit 9a. Screw threaded into a bore 11 in the housing is a needle valve 6 which can be adjusted by means of valve adjustment means 10a, 10b to move further towards or away from the pressure take off 9.